





```

RESULT 5
US-09-154-802-3
; Sequence 3, Application US/09154802
; Patent No. 5989822
; GENERAL INFORMATION:
; APPLICANT: Y. Tom Tang
; APPLICANT: Corley, Neil C.
; APPLICANT: Guesler, Karl J.
; APPLICANT: Baughn, Mariah R.
; TITLE OF INVENTION: AFP SYNTHASE SUBUNIT HOMOLOG
; FILE REFERENCE: PF-0596 US
; CURRENT APPLICATION NUMBER: US/09/154.802
; CURRENT FILING DATE: 1998-09-17
; NUMBER OF SEQ ID NOS: 3
; SOFTWARE: PERL Program
; SEQ ID NO 3
; LENGTH: 255
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE: -
; OTHER INFORMATION: g1006572
US-09-154-802-3

Query Match          4.1%; Score 95.5; DB 2; Length 255;
Best Local Similarity 23.2%; Pred. No. 0.035;
Matches 58; Conservative 45; Mismatches 108; Indels 39; Gaps 10;

Qy 183 QLTQYVSLISAEPVLCGRVVLWVPSLSVTVYGATLCNMLAIQIKYDDYKIRLGP----- 237
Db 11 QPTRVVPGLSSGLINLDTMTLTSFMSYI---AVVALLMGFSI-LNDNNNTILPTRWSL 66

Qy 238 -LEVLCITIMRTLE-----ITSRLILVLFSA---TLKLKAVPPLVNLNPLI----- 279
Db 67 APESLYPTVEKWSVSEQMGLEGRLLPFPMFSLFMVILMANVSVSLVPYSVAINAQLMWTMG 126

Qy 280 ILPEPWIKFPTWSGQMPNNIEKNFSRV---GTLVVLIISVTILYAGINFSCHWS-ALQLRLA 335
Db 127 LSAVAIWIGCTLTG--LANHGAKFFGLPLPSGNTLPLVPLVMIELLSYMARALSGLRLG 184

Qy 336 DRDLVDKQNMGHMGLHYSVRLVENIMVLPKPGVKKVLLNCHSLTALQLIITAYLISI 395
Db 185 SNILA-----GHLLLVILAGILNFINFISMTFTALGILPLSILLCIVALESAFTAQM 238

Qy 396 DFMLLFFOYL 405
Db 239 VFTMLTCSYI 248

```

RESULT 6  
US-09-373-029-3  
; Sequence 3, Application US/09373029  
; Patent No. 6036954  
; GENERAL INFORMATION:  
; APPLICANT: Y. Tom Tang  
; APPLICANT: Corley, Neil C.  
; APPLICANT: Guegler, Karl J.  
; APPLICANT: Baughn, Mariah R.  
; TITLE OF INVENTION: ATP SYNTHASE SUBUNIT HOMOLOG  
; FILE REFERENCE: PP-0596 US  
; CURRENT APPLICATION NUMBER: US/09/373,029  
; CURRENT FILING DATE: 1999-08-11  
; EARLIER APPLICATION NUMBER: 09/154,802  
; EARLIER FILING DATE: 1998-09-17  
; NUMBER OF SEQ ID NOS: 3  
; SOFTWARE: PERL Program  
; SEQ ID NO 3  
; LENGTH: 255  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE: -  
; OTHER INFORMATION: g1006572  
US-09-373-029-3

```

Query Match          4.1%; Score 95.5; DB 3; Length 255;
Best Local Similarity 23.2%; Pred. No. 0.035;
Matches 58; Conservative 45; Mismatches 108; Indels 39; Gaps

QY 183 QLTIVLYSLISAEVPLGRVLMVPSLVSVTVGATLCNNLAIQIKYDDYKIRLGP----- 237
DB 11 QFTRVYVFLGSSGLINDTWTLTFSFMYSI--AVVALMGLFSI-LNDNNTNILPTRWSL 66
QY 238 -LEVLCITTIWRTLE-----ITSRLILVLFSFSA---TLKLKAVPFLVLNFI----- 279
DB 67 APESLFTVEKAVQSEQGGLEGLELFPFWSFLPYILMANVTVSLVPYSVAINAQLMWTMG 126
QY 280 ILPEPWIKFWRGSAQMPNNIEKNFSRV---GTLVWLISVTILYAGINFSCWS-ALQLRLA 335
DB 127 LSVAINIGCTLTG--LANHGAKFFGLFPGSGTNLPLVPVLMIELLSYMARALSGLRLG 184
QY 336 DRDLVDKQGWGHMGLHYSVRLVENIMVLVFKFFQVKVLLNYCHSLIALQILIIAYLISI 395
DB 185 SNTLA-----GHLLLVILAGLILNIFISIMFTFALGILPLSLILGIVALESAIAFIQAM 238
QY 396 DFMLLFFQYL 405
DB 239 VFTMLTCSYI 248

RESULT 7
US-08-706-281A-18
; Sequence 18, Application US/08706281A
; Patent No. 6100048
; GENERAL INFORMATION:
; APPLICANT: Cone, Roger D
; APPLICANT: Fan, Wei
; APPLICANT: Boston, Bruce A
; APPLICANT: Kesterton, Robert A
; APPLICANT: Lu, Dongxi
; APPLICANT: Chen, Wenbiao
; TITLE OF INVENTION: Methods and Reagents for Discovering and
; TITLE OF INVENTION: Using Mammalian Melanocortin Receptor Agonists a
; TITLE OF INVENTION: To Modulate Feeding Behavior in Animals
; NUMBER OF SEQUENCES: 19
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: McDonnell Boehnen Hulbert & Berghoff
; STREET: 300 South Wacker Drive
; CITY: Chicago
; STATE: IL
; COUNTRY: USA
; ZIP: 60606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC Compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/706,281A
; FILING DATE: 04-SEP-1996
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: NO. 6100048nan, Kevin E
; REGISTRATION NUMBER: 35,303
; REFERENCE/DOCKET NUMBER: 96,886
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312-913-0001
; TELEFAX: 312-913-0002
; TELEX:
; INFORMATION FOR SEQ ID NO: 18:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 325 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-706-281A-18

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US-08-706-281A-18



```

; ; REGISTRATION NUMBER: 33,779
; ; REFERENCE/DOCKET NUMBER: 6362-9951
; ; TELECOMMUNICATION INFORMATION:
; ; TELEPHONE: 619-238-0999
; ; TELEFAX: 619-238-0062
; ; INFORMATION FOR SEQ ID NO: 16:
; ; SEQUENCE CHARACTERISTICS:
; ; LENGTH: 458 amino acids
; ; TYPE: amino acid
; ; TOPOLOGY: linear
; ; MOLECULE TYPE: protein
US-08-487-596-16

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	Query Match	4.1%;	Score 95;	DB 4;	Length 458;
	Best Local Similarity	25.1%;	Pred. No. 0.096;		
	Matches	44;	Conservative 35;	Mismatches 64;	Indels 32; Gaps
Qy	73 FFMFSSIMVOLTLLI--FV----	HRDLAKDKPISLFMHILIG-	FVIRCLEAMIKYLTL	123	
	: :	:	:	:	:
	: :	:	:	:	:
	: :	:	:	:	:
Db	299 YLFPIMLFVTLSIVTVFINVHRRSSTTHPNAPWVKRLFLOKLPGLCMKHVDHYRYS	358			
	:	:	:	:	:
Qy	124 WKKEOEPEPV-----SLTRKQMLIDGEEVLIEW--EVGHSTINTLAHMRYNKRMSQIOA	176			
	:	:	:	:	:
	:	:	:	:	:
Db	359 PEKEE-SQPVMGVKLEKKQKLSDEKVLVAFLPKADSIIRYISRHKVEEHFIQSQQVQ	417			
	:	:	:	:	:
Qy	177 FLGSVPQLTYQLVYLSIASEVPGRVVLVAFPSVISVYTYGATLCNMLAIQIKYDDY	231			
	:	:	:	:	:
	:	:	:	:	:
Db	418 DWKFVAQV-----LDRIPLMFLIVSAT-GSVLIPTPALCKWLHSY	457			
	:	:	:	:	:

RESULT 10  
 US-09-134-001C-5576  
 ; Sequence 5576, Application US/09134001C  
 ; Patent No. 6380370  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Lynh Doucette-Stamm et al  
 ; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS  
 ; TITLE OF INVENTION: EPIDERMIDIS FOR DIAGNOSTICS AND THERAPEUTICS  
 ; FILE REFERENCE: GTC-007  
 ; CURRENT APPLICATION NUMBER: US/09/134.001C  
 ; CURRENT FILING DATE: 1998-08-13  
 ; PRIOR APPLICATION NUMBER: US 60/064,964  
 ; PRIOR FILING DATE: 1997-11-08  
 ; PRIOR APPLICATION NUMBER: US 60/055,779  
 ; PRIOR FILING DATE: 1997-08-14  
 ; NUMBER OF SEQ ID NOS: 5674  
 ; SEQ ID NO 5576  
 ; LENGTH: 683  
 ; TYPE: PRT  
 ; ORGANISM: Staphylococcus epidermidis  
 US-09-134-001C-5576

Query Match	4.1%;	Score 94.5;	DB 4;	Length 683;
Best Local Similarity	19.9%;	Pred. No. 0.2;		
Matches 82;	Conservative 77;	Mismatches 151;	Indels 103;	Gaps
Qy	75	MFSSIMVQLTLLI----	FVHRDLAKDKPLSLFHLILLGLPVIRCLEAMIKYLTLMKKE----	127
Db	7	IPETLLIFVALIVIVSSPVHTFIPK-VPLAIIQ--IFLG-----	WILYLPPIPVFNF 55	
Qy	128	EQBEPYVSLTRKQWLIDGEEVLIEWEVGHSIRTLAMHRNAYKMSQIQAPLSV--PQUT 185		
Db	56	DSELFMYTLTAPLLFVEG-----	VNVSrvHLRKYIKPVMMNA-LGLVITTVIG 102	
Qy	186	YQYXVSLISAEPVLRGVLMVFSL-----	VSVTVGATLCNMLAI 224	
Db	103	VGLFIIHWPELPFGAFAATAILCPTDAVAVQAITKGKVLPGKSWTILEGSLNDRAAG 162		
Qy	225	QIKYDDYKIRGLPEVLCTIHWTLB---ITS-----	RLLI---LVLSATILKUKAVPF 272	
Db	163	II---SPKIAVGLITGTFIPDAIQOFLIASTGGAIVGLIIGMALVRFLRLTMRGGIN 219		
Qy	273	LVLNFLILPEPIKFWRSQAOPNNIEKPNFSRGTVLVLVLSITVILIYAGINFSCHSALOL 332		

```

220  INMFETIQLLTPEFVTYL-----IAELFHASGIIAAVV-----AGL-----V 255
      ::  ::  ::  ::  ::  ::  ::  ::  ::  ::  ::  ::  ::  ::  ::  ::  ::
333  RLADRLDVLGQNGWGHMLGHSYVRLVENVMVLVKEFFG-----VKULLNYCHSLIAL 365
      ::  ::  ::  ::  ::  ::  ::  ::  ::  ::  ::  ::  ::  ::  ::  ::  ::
256  HGPERDRIATRQLQMSYNYHTWSILGYLVNGFVSILGELPEVIVKIIKTEPHNLLFL 315
      ::  ::  ::  ::  ::  ::  ::  ::  ::  ::  ::  ::  ::  ::  ::  ::  ::
386  QLIIAYLISIDFMLLPQYLHPRLRSIPTHNVVDYLVHCVCCHQHPRTRVENSEP 438
      ::  ::  ::  ::  ::  ::  ::  ::  ::  ::  ::  ::  ::  ::  ::  ::  ::
316  -IVITLLAVALLVFLRVVYVYLYPYFLSVSPFQKMI--SKNDEKIVTESKP 365
      ::  ::  ::  ::  ::  ::  ::  ::  ::  ::  ::  ::  ::  ::  ::  ::  ::

```

```

RESULT 11
US-08-671-525B-10
; Sequence 10, Application US/08671525B
; Patent No. 5703220
; GENERAL INFORMATION:
; APPLICANT: Yamada, Tadataka
; APPLICANT: Gantz, Ira
; TITLE OF INVENTION: Genes Encoding Melanocortin Receptors
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Harnesg. Dickey & Pierce, P.L.C.
; STREET: P.O. Box 828
; CITY: Bloomfield Hills
; STATE: MI
; COUNTRY: US
; ZIP: 48303
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/671,525B
; FILING DATE: June 27, 1996
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Smith, DeAnn F.
; REGISTRATION NUMBER: 36683
; REFERENCE/DOCKET NUMBER: 2115-000853DVB
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (810)641-1600
; TELEFAX: (810)641-0270
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 325 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-671-525B-10

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	Query Match	4.0%;	Score 92.5;	DB 1;	Length 325;
	Best Local Similarity	19.1%;	Pred. No. 0.11;		
	Matches 63;	Conservative	66;	Mismatches 111;	Indels 89; Gaps
Qy	131	EPVYSLTRKKMLDGEVLJEWGVGHSIRTLAMHRNAYKMSQIQAFGLGSPQL-----184			
Db	41	EVFTLTGLVSL-----ENILV-----IGAIVKKNLH-----SPMYFVGSLAYADMVLSM 87			
Qy	185	-----TTQLIV-----SLISAEVPLGRVLMVFLSVTVYGTATCNMLATQI-KYDD--YK 232			
Db	88	SNAWETVTIYLLANKHLVIADTFVRHIDNVFDPMICISVVASCMCSLLAIAVDRIITFYA 147			
Qy	233	IRLGPL-----EVLCTIIWRTLEITSRLILVLFGA-----TLKLVAPFLVLAFLNLIIFE 283			
Db	148	LYHHHIMTARRSGVIITACIW-TTCISOGIVFIIVYESKYVICLSMFFTMLFWMVSLYI 206			
Qy	284	PWIKFWRSG-----AQMP--NNIEKNFSRVGTLVVLISVTILYAGINFSCHSALQLRADR 337			
Db	207	HMFLAENHVKRIATAASPRYNSVQRSTMKGA-----ITLTM-LGIFIVCVSPFFLHLI-- 259			
Qy	338	DLVDKGQWGWHMGLHYSVRLENNVMVLVFPFGVKVLLNYCHSLALQIIAYLISIDF 397			

Db 260 -----LMISCPQNVYSCFMSYFNMVYLILMNCNSVID----- 291

QY 398 MLLFQYLHPLSLFTHNVVDYLHCVCCH 426

Db 292 -----PLIYALRSQEMRRT--FKEIVCCH 313

RESULT 12

US-08-672-109B-10

; Sequence 10, Application US/08672109B

; Patent No. 5710265

; GENERAL INFORMATION:

; APPLICANT: Yamada, Tadataka

; APPLICANT: Gantz, Ira

; TITLE OF INVENTION: Genes Encoding Melanocortin Receptors

; NUMBER OF SEQUENCES: 23

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Harness, Dickey & Pierce, P.L.C.

; STREET: P.O. Box 828

; CITY: Bloomfield Hills

; STATE: MI

; COUNTRY: US

; ZIP: 48303

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patent In Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; FILING DATE: June 27, 1996

; CLASSIFICATION: 536

; ATTORNEY/AGENT INFORMATION:

; NAME: Smith, Deann F.

; REGISTRATION NUMBER: 36683

; REFERENCE/DOCKET NUMBER: 2115-000853DVC

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (810)641-1600

; TELEFAX: (810)641-0270

; INFORMATION FOR SEQ ID NO: 10:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 325 amino acids

; TYPE: amino acid

; TOPOLOGY: linear

; MOLECULE TYPE: protein

US-08-672-109B-10

Query Match 4.0%; Score 92.5; DB 1; Length 325;

Best Local Similarity 19.1%; Pred. No. 0.11;

Matches 63; Conservative 66; Mismatches 111; Indels 89; Gaps 17;

QY 131 EPVSLTRKMKMLIDGEEVLIWEVGHISIRTLAMHRNAYKRMQIOAFLGSPQL----- 184

Db 41 EVFLTLGLVSL--ENILV--IGAIVKNKLH-----SPMYFYVGS LAVADMLVSM 87

QY 185 -----TYQLYV-----SLISAEPVLRVLMVFLSVTVYATLCNNMLAIQI-KYDD--YK 232

Db 88 SNAWETVTIYLLNNKHLVIADTFVRHIDNVFDSMICISVVASMCSLLAIAVDRIITFYA 147

QY 233 IRLGPL-----EVLCTIWTLETSRLILVLPFA---TLKAKVPLVLNFIILPE 283

Db 148 LRYHHIMTARRSGVIACIW-TFCISCGIVFIYVESKYVVICLSIMFTMLFFMVSLYI 206

QY 284 PIWKFRSG-----AOMP--NNIEKNFSRVGTILVLSITVLVYAGINFCWSALQLRLADR 337

Db 207 HNFLARNHVKRIASPRYSNVRQRTSMKA---ITLTM-LGIFVCSPPFLHLI-- 259

QY 338 DLVDKGQNGHMGHLYSVRLVENIMVLVFKFVGKVLNLYCHSLIALQLIIAYLISIDF 397

Db 260 -----LMISCPQNVYSCFMSYFNMVYLILMNCNSVID----- 291

QY 398 MLLFQYLHPLSLFTHNVVDYLHCVCCH 426

Db 292 -----PLIYALRSQEMRRT--FKEIVCCH 313

RESULT 13

US-08-842-045-10

; Sequence 10, Application US/08842045

; Patent No. 5817787

; GENERAL INFORMATION:

; APPLICANT: Yamada, Tadataka

; APPLICANT: Gantz, Ira

; TITLE OF INVENTION: Genes Encoding Melanocortin Receptors

; NUMBER OF SEQUENCES: 23

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Harness, Dickey & Pierce, P.L.C.

; STREET: P.O. Box 828

; CITY: Bloomfield Hills

; STATE: MI

; COUNTRY: US

; ZIP: 48303

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patent In Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/842,045

; FILING DATE:

; CLASSIFICATION: 536

; ATTORNEY/AGENT INFORMATION:

; NAME: Smith, Deann F.

; REGISTRATION NUMBER: 36683

; REFERENCE/DOCKET NUMBER: 2115-000853DVE

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (810)641-1600

; TELEFAX: (810)641-0270

; INFORMATION FOR SEQ ID NO: 10:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 325 amino acids

; TYPE: amino acid

; TOPOLOGY: linear

; MOLECULE TYPE: protein

US-08-842-045-10

Query Match 4.0%; Score 92.5; DB 2; Length 325;

Best Local Similarity 19.1%; Pred. No. 0.11;

Matches 63; Conservative 66; Mismatches 111; Indels 89; Gaps 17;

QY 131 EPVSLTRKMKMLIDGEEVLIWEVGHISIRTLAMHRNAYKRMQIOAFLGSPQL----- 184

Db 41 EVFLTLGLVSL--ENILV--IGAIVKNKLH-----SPMYFYVGS LAVADMLVSM 87

QY 185 -----TYQLYV-----SLISAEPVLRVLMVFLSVTVYATLCNNMLAIQI-KYDD--YK 232

Db 88 SNAWETVTIYLLNNKHLVIADTFVRHIDNVFDSMICISVVASMCSLLAIAVDRIITFYA 147

QY 233 IRLGPL-----EVLCTIWTLETSRLILVLPFA---TLKAKVPLVLNFIILPE 283

Db 148 LRYHHIMTARRSGVIACIW-TFCISCGIVFIYVESKYVVICLSIMFTMLFFMVSLYI 206

QY 284 PIWKFRSG-----AOMP--NNIEKNFSRVGTILVLSITVLVYAGINFCWSALQLRLADR 337

Db 207 HNFLARNHVKRIASPRYSNVRQRTSMKA---ITLTM-LGIFVCSPPFLHLI-- 259

QY 338 DLVDKGQNGHMGHLYSVRLVENIMVLVFKFVGKVLNLYCHSLIALQLIIAYLISIDF 397

Db 260 -----LMISCPQNVYSCFMSYFNMVYLILMNCNSVID----- 291

QY 398 MLLFQYLHPLSLFTHNVVDYLHCVCCH 426

Db 292 -----PLIYALRSQEMRRT--FKEIVCCH 313

## RESULT 14

US-08-842-238-10  
; Sequence 10, Application US/08842238  
; Patent No. 5869257  
; GENERAL INFORMATION:  
; APPLICANT: Yamada, Tadataka  
; APPLICANT: Gantz, Ira  
; TITLE OF INVENTION: Genes Encoding Melanocortin Receptors  
; NUMBER OF SEQUENCES: 23  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Harness, Dickey & Pierce, P.L.C.  
; STREET: P.O. Box 828  
; CITY: Bloomfield Hills  
; STATE: MI  
; COUNTRY: US  
; ZIP: 48303  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/842,238  
; FILING DATE:  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Smith, DeAnn F.  
; REGISTRATION NUMBER: 36683  
; REFERENCE/DOCKET NUMBER: 2115-000853DVD  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (810)641-1600  
; TELEFAX: (810)641-0270  
; INFORMATION FOR SEQ ID NO: 10:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 325 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; US-08-842-238-10

Query Match 4.0%; Score 92.5; DB 2; Length 325;

Best Local Similarity 19.1%; Pred. No. 0.11;

Matches 63; Conservative 66; Mismatches 111; Indels 89; Gaps 17;

QY 131 EPYVSLTRKMLDGEVLEWYGHSTRLTAMHRYKMSQIQAELGSPQL----- 184  
DB 41 EVFLTLGLVSL-----ENILV---IGAIVKKNLH-----SPMYFYVGS LAVADMLVSM 87  
QY 185 -----TYQLYV-----SLISAEVPLGRVVLVWFSVSVTYGATLGNMLAIQI-KYDD--YK 232  
DB 88 SNAWETVTIILLNNKHLVIADTFVRHIDNVFDSMICISVWASMSLLAIAVDRTITFYA 147  
QY 233 IRLGPL-----EVLCTITWRTLEITSRLLILVLFSA---TLKLKAVPFLVNLFIILFE 283  
DB 148 LRYHIMTARRSGVIIACIW-TFCISGIVFIYYESKYVVICLSIMFTMLFFWVSLYI 206  
QY 284 PWIKFWRSG-----AQMP--NNIEKNFRSGVTLVVLISVTILYAGINFSWALQRLADR 337  
DB 207 HMFLLARNHVKRIAAAPRYNSVRQRTSMKGA-----ITLTM-LGIFIVCWSPPFLHLI-- 259  
QY 338 DLVDKQNGWGHMGLHYSVRLVENIMVLFKFGVKVLLNCHSLIALQLIAYLISIDF 397  
DB 260 -----LMISCPQNYCSCFMSYFNMYLLILMNCNSVID----- 291  
QY 398 MLLFFQYLPLRLSLFTHNVVDYLHCVCCH 426  
DB 292 -----PLIYALRSQEMRT--FKIEIVCCH 313

## RESULT 15

US-08-629-335B-10  
; Sequence 10, Application US/08629335B  
; Patent No. 6117975

## GENERAL INFORMATION:

APPLICANT: Yamada, Tadataka  
APPLICANT: Gantz, Ira  
TITLE OF INVENTION: Genes Encoding Melanocortin Receptors  
NUMBER OF SEQUENCES: 23  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Harness, Dickey & Pierce, P.L.C.  
STREET: P.O. Box 828  
CITY: Bloomfield Hills  
STATE: MI  
COUNTRY: US  
ZIP: 48303  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/629,335B  
FILING DATE: July 23, 1996  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Smith, DeAnn F.  
REGISTRATION NUMBER: 36683  
REFERENCE/DOCKET NUMBER: 2115-000853DVA  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (810)641-1600  
TELEFAX: (810)641-0270  
INFORMATION FOR SEQ ID NO: 10:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 325 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-629-335B-10

Query Match 4.0%; Score 92.5; DB 3; Length 325;

Best Local Similarity 19.1%; Pred. No. 0.11;

Matches 63; Conservative 66; Mismatches 111; Indels 89; Gaps 17;

QY 131 EPYVSLTRKMLDGEVLEWYGHSTRLTAMHRYKMSQIQAELGSPQL----- 184  
DB 41 EVFLTLGLVSL-----ENILV---IGAIVKKNLH-----SPMYFYVGS LAVADMLVSM 87  
QY 185 -----TYQLYV-----SLISAEVPLGRVVLVWFSVSVTYGATLGNMLAIQI-KYDD--YK 232  
DB 88 SNAWETVTIILLNNKHLVIADTFVRHIDNVFDSMICISVWASMSLLAIAVDRTITFYA 147  
QY 233 IRLGPL-----EVLCTITWRTLEITSRLLILVLFSA---TLKLKAVPFLVNLFIILFE 283  
DB 148 LRYHIMTARRSGVIIACIW-TFCISGIVFIYYESKYVVICLSIMFTMLFFWVSLYI 206  
QY 284 PWIKFWRSG-----AQMP--NNIEKNFRSGVTLVVLISVTILYAGINFSWALQRLADR 337  
DB 207 HMFLLARNHVKRIAAAPRYNSVRQRTSMKGA-----ITLTM-LGIFIVCWSPPFLHLI-- 259  
QY 338 DLVDKQNGWGHMGLHYSVRLVENIMVLFKFGVKVLLNCHSLIALQLIAYLISIDF 397  
DB 260 -----LMISCPQNYCSCFMSYFNMYLLILMNCNSVID----- 291  
QY 398 MLLFFQYLPLRLSLFTHNVVDYLHCVCCH 426  
DB 292 -----PLIYALRSQEMRT--FKIEIVCCH 313

Search completed: April 1, 2003, 08:48:06

Job time : 22 secs

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